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Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2009; month=12; day=24; hr=13; min=50; sec=43; ms=621; ]

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\*\*\*\*\*

Reviewer Comments:

Seq Id # 6

Leu Ala Arg Ala Val Phe Ala Ser Ser Arg Thr Phe Gly Pro Ala Ser  
995 1000 1005

Phe Ala Arg Ile Glu Thr Ala Phe Ala Asn Leu Tyr Pro Gly Glu  
1010 1015 1020

Gln Pro Leu Cys Leu Cys Arg Gly Gly Asn Val Ala Tyr Thr Val  
1025 1030 1035

Please move a space between the bases Gly Pro  
1005

Please make necessary changes.

\*\*\*\*\*

Application No: 10591787 Version No: 2.0

**Input Set:**

**Output Set:**

**Started:** 2009-12-03 19:02:14.043  
**Finished:** 2009-12-03 19:02:26.589  
**Elapsed:** 0 hr(s) 0 min(s) 12 sec(s) 546 ms  
**Total Warnings:** 5  
**Total Errors:** 1  
**No. of SeqIDs Defined:** 91  
**Actual SeqID Count:** 91

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
E 323	Invalid/missing amino acid numbering SEQID (6) POS (1006)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)

SEQUENCE LISTING

<110> Nagaike, Kazuhiro  
Mori, Yasuko  
Gomi, Yasuyuki  
Takahashi, Michiaki  
Kouichi, Yamanishi

<120> Recombinant varicella-zoster virus

<130> 59150-8037

<140> 10591787

<141> 2009-12-03

<150> PCT/JP2005/003652

<151> 2005-03-05

<150> JP 2004-063277

<151> 2004-03-05

<160> 91

<170> PatentIn version 3.2

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acacgttta agtactgttg gaactccctc accaaccgca aycgcaatcc tttgaaggct 180

gcgagagcgt ttggaaaact cgggtacgtc taaattcacc ccagygcc atg gat acg 237  
Met Asp Thr  
1

ccg ccg atg cag cgc tct aca ccc caa cgc gcg ggg tcg cct gat act 285  
Pro Pro Met Gln Arg Ser Thr Pro Gln Arg Ala Gly Ser Pro Asp Thr

ttt gag tta atg gac ctg ttg gac ggc gcc gcc gcc gaa cac				333
Leu Glu Leu Met Asp Leu Leu Asp Ala Ala Ala Ala Ala Glu His				
20	25	30	35	
agg gcc cggttgc acc tcg agt cag cct gac gat cta cta ttt gga				381
Arg Ala Arg Val Val Thr Ser Ser Gln Pro Asp Asp Leu Leu Phe Gly				
40	45	50		
gag aac ggg gtc atg gtg gga cggttgc aac cat gag atc gtt tca att ccc				429
Glu Asn Gly Val Met Val Gly Arg Glu His Glu Ile Val Ser Ile Pro				
55	60	65		
tcc gta tcg gga ctt caa cca gaa ccc aga acg gaa gat gtt ggc gaa				477
Ser Val Ser Gly Ile Gln Pro Glu Pro Arg Thr Glu Asp Val Gly Glu				
70	75	80		
gag cta aca caa gac gac tac gta tcg gag gac ggt cag gat cta ayg				525
Glu Leu Thr Gln Asp Asp Tyr Val Cys Glu Asp Gly Gln Asp Leu Xaa				
85	90	95		
ggc tcg cct gta atc ccg ctg gcc gag gtc ttc cac acc cga ttc tcg				573
Gly Ser Pro Val Ile Pro Leu Ala Glu Val Phe His Thr Arg Phe Ser				
100	105	110	115	
gag gcc ggc gcg cga gaa cca aca gga gcc gat cgc tcc ctc gag aca				621
Glu Ala Gly Ala Arg Glu Pro Thr Gly Ala Asp Arg Ser Leu Glu Thr				
120	125	130		
gtc tct ctc gga acg aag ctt gct agg tct cca aaa cca ccg atg aac				669
Val Ser Leu Gly Thr Lys Leu Ala Arg Ser Pro Lys Pro Pro Met Asn				
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Asp Gly Glu Thr Gly Arg Gly Thr Thr Pro Pro Phe Pro Gln Ala Phe				
150	155	160		
tcc cct gta tcc ccc gcg tct cct gtt gga gac gcc gcc ggg aac gat				765
Ser Pro Val Ser Pro Ala Ser Pro Val Gly Asp Ala Ala Gly Asn Asp				
165	170	175		
caa ccg gaa gac cag ccg tct ata ccc cga caa acg acg aga gga aat				813
Gln Arg Glu Asp Gln Arg Ser Ile Pro Arg Gln Thr Thr Arg Gly Asn				
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tca cca ggt ttg ccg tcg gtg gtc cat cga gac aga caa act cag tcc				861
Ser Pro Gly Leu Pro Ser Val Val His Arg Asp Arg Gln Thr Gln Ser				
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atc tcg ggt aaa aag ccg ggc gat gag caa ggc ggt cat ggc cat gca				909
Ile Ser Gly Lys Pro Gly Asp Glu Gln Ala Gly His Ala His Ala				
215	220	225		
tcg ggg gac gga gta gtt ctc cag aaa act caa ccg ccc gct cag gga				957
Ser Gly Asp Gly Val Val Leu Gln Lys Thr Gln Arg Pro Ala Gln Gly				
230	235	240		

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Lys	Ser	Pro	Lys	Lys	Thr	Leu	Lys	Val	Lys	Val	Pro	Leu	Pro	Ala		
245		250				255										
cg	aaa	ccc	ggt	gga	cct	gta	ccc	ggc	ccg	gtt	gag	caa	ttg	tac	cac	1053
Arg	Lys	Pro	Gly	Gly	Pro	Val	Pro	Gly	Pro	Val	Glu	Gln	Leu	Tyr	His	
260		265			270			275								
gtc	ctt	tcg	gac	agc	gtt	ccc	gct	aag	ggg	gca	aag	gct	gac	ctg	ccg	1101
Val	Leu	Ser	Asp	Ser	Val	Pro	Ala	Lys	Gly	Ala	Lys	Ala	Asp	Leu	Pro	
280			285			290										
ttt	gag	acc	gat	gat	acc	cg	cc	aa	cat	gat	g	cc	cg	g	at	1149
Phe	Glu	Thr	Asp	Asp	Thr	Arg	Pro	Arg	Lys	His	Asp	Ala	Arg	Gly	Ile	
295			300			305										
aca	cct	cgc	gtc	cct	gga	cgt	tcg	tcg	ggg	ggc	aa	cct	aga	gct	ttt	1197
Thr	Pro	Arg	Val	Pro	Gly	Arg	Ser	Ser	Gly	Gly	Lys	Pro	Arg	Ala	Phe	
310		315			320											
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Leu	Ala	Leu	Pro	Gly	Arg	Ser	His	Ala	Pro	Asp	Pro	Ile	Glu	Asp	Asp	
325		330			335											
agc	ccg	gtg	gag	aa	aag	cc	aa	ag	cgt	ttt	gtt	tcg	tct	tca	1293	
Ser	Pro	Val	Glu	Lys	Lys	Pro	Lys	Ser	Arg	Glu	Phe	Val	Ser	Ser	Ser	
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Ser	Ser	Ser	Ser	Ser	Trp	Gly	Ser	Ser	Ser	Glu	Asp	Glu	Asp	Asp	Glu	
360			365			370										
ccc	ccg	cgc	gtt	tcg	gtg	gga	agt	gaa	act	aca	ggc	agc	agg	tcc	gga	1389
Pro	Arg	Arg	Val	Ser	Val	Gly	Ser	Glu	Thr	Thr	Gly	Ser	Arg	Ser	Gly	
375			380			385										
cgc	gaa	cac	gcc	cct	tcc	ccg	tca	aat	tcg	gat	gat	tcg	gac	tca	aat	1437
Arg	Glu	His	Ala	Pro	Ser	Pro	Ser	Asn	Ser	Asp	Asp	Ser	Asp	Ser	Asn	
390		395			400											
gat	ggt	ggg	tcg	acg	aa	caa	aat	atc	caa	ccg	gga	tat	cga	tcc	atc	1485
Asp	Gly	Gly	Ser	Thr	Lys	Gln	Asn	Ile	Gln	Pro	Gly	Tyr	Arg	Ser	Ile	
405			410			415										
agc	ggt	ccc	gat	ccg	agg	att	cgt	aag	acc	aa	cgt	ctt	gct	ggg	gaa	1533
Ser	Gly	Pro	Asp	Pro	Arg	Ile	Arg	Lys	Thr	Lys	Arg	Leu	Ala	Gly	Glu	
420		425			430			435								
ccg	ggg	cgc	cag	aga	cag	aa	tca	ttt	tcc	ctg	ccg	cga	tcc	aga	acc	1581
Pro	Gly	Arg	Gln	Arg	Gln	Lys	Ser	Phe	Ser	Leu	Pro	Arg	Ser	Arg	Thr	
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Pro	Ile	Ile	Pro	Pro	Val	Ser	Gly	Pro	Leu	Met	Met	Pro	Asp	Gly	Ser	
455			460			465										
cct	tgg	ccc	gga	tcg	gct	ccc	ctc	cca	tcc	aac	agg	gtg	cg	ttt	gga	1677

Pro Trp Pro Gly Ser Ala Pro Leu Pro Ser Asn Arg Val Arg Phe Gly			
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Pro Ser Gly Glu Thr Arg Glu Gly His Trp Glu Asp Glu Ala Val Arg			
485	490	495	
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Ala Ala Arg Ala Arg Tyr Glu Ala Ser Thr Glu Pro Xaa Pro Leu Tyr			
500	505	510	515
gtg ccg gag ttg gga gat ccg gct aga cag tac cgc gcg ctg att aac			1821
Val Pro Glu Leu Gly Asp Pro Ala Arg Gln Tyr Arg Ala Leu Ile Asn			
520	525	530	
ctg atc tac tgt cca gac aga gac cct ata gca tgg ctc cag aac ccc			1869
Leu Ile Tyr Cys Pro Asp Arg Asp Pro Ile Ala Trp Leu Gln Asn Pro			
535	540	545	
aag ctg acc ggt gtc aac tcg gcc ctg aac cag ttc tac caa aag ctg			1917
Lys Leu Thr Gly Val Asn Ser Ala Leu Asn Gln Phe Tyr Gln Lys Leu			
550	555	560	
ttg cca ccg gga cgg gcg ggt acc gcc gtt acg ggg agc gta gcg tct			1965
Leu Pro Pro Gly Arg Ala Gly Thr Ala Val Thr Gly Ser Val Ala Ser			
565	570	575	
ccc gtt ccg cat gta ggc gaa gcc atg gcc acg ggg gag gcc ctc tgg			2013
Pro Val Pro His Val Gly Glu Ala Met Ala Thr Gly Glu Ala Leu Trp			
580	585	590	595
gct ctc ccc cac gcg gcc gcg gtc gct atg agc cgt cgg tac gac			2061
Ala Leu Pro His Ala Ala Ala Val Ala Met Ser Arg Arg Tyr Asp			
600	605	610	
cgg gcc caa aaa cac ttt atc cta cag agt ctc cgc aga gcc ttt gcc			2109
Arg Ala Gln Lys His Phe Ile Leu Gln Ser Leu Arg Arg Ala Phe Ala			
615	620	625	
ggc atg gca tac ccc gag gca acg ggc tcc agt ccg gcg gcg cgg atc			2157
Gly Met Ala Tyr Pro Glu Ala Thr Gly Ser Ser Pro Ala Ala Arg Ile			
630	635	640	
tcc cgc ggt cac cct tct cca aca acc ccg gcc aca cag act ccc gac			2205
Ser Arg Gly His Pro Ser Pro Thr Thr Pro Ala Thr Gln Thr Pro Asp			
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cct cag ccg tcg gcc gcc gcg cgc tct ctt tct gtg tgt cca ccg gat			2253
Pro Gln Pro Ser Ala Ala Ala Arg Ser Leu Ser Val Cys Pro Pro Asp			
660	665	670	675
gat cgt tta cga act ccg cgc aag cgc aag tcc cag cca gtc gag agc			2301
Asp Arg Leu Arg Thr Pro Arg Lys Arg Lys Ser Gln Pro Val Glu Ser			
680	685	690	
aga agc ctc ctc gac aag att agg gag aca ccc gtc gcg gac gcc cgg			2349
Arg Ser Leu Leu Asp Lys Ile Arg Glu Thr Pro Val Ala Asp Ala Arg			

695	700	705	
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Val Ala Asp Asp His Val Val Ser Lys Ala Lys Arg Arg Val Ser Glu			
710	715	720	
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Pro Val Thr Ile Thr Ser Gly Pro Val Val Asp Pro Pro Ala Val Ile			
725	730	735	
acg atg cca ctt gac gga ccg gcc cca aac ggg gga ttt cgg cgt att			2493
Thr Met Pro Leu Asp Gly Pro Ala Pro Asn Gly Gly Phe Arg Arg Ile			
740	745	750	755
ccc cgg ggg gcc ctg cat acc ccg gtc ccg tcg gac cag gct cgc aag			2541
Pro Arg Gly Ala Leu His Thr Pro Val Pro Ser Asp Gln Ala Arg Lys			
760	765	770	
gcg tac tgt acc ccc gaa acc atc gcc cgt ctg gtc gac gac cca ttg			2589
Ala Tyr Cys Thr Pro Glu Thr Ile Ala Arg Leu Val Asp Asp Pro Leu			
775	780	785	
ttt ccc acg gcc tgg cgc cct gcg cta agc ttt gat ccc ggc gcc ttg			2637
Phe Pro Thr Ala Trp Arg Pro Ala Leu Ser Phe Asp Pro Gly Ala Leu			
790	795	800	
gcg gaa atc gcc gct cgg cgt ccg ggc gga gga gac cga cgg ttt ggt			2685
Ala Glu Ile Ala Ala Arg Arg Pro Gly Gly Asp Arg Arg Phe Gly			
805	810	815	
cca ccc agc gga gtg gag gcg ctg cga ccg agg tgc gcc tgg atg cgg			2733
Pro Pro Ser Gly Val Glu Ala Leu Arg Arg Arg Cys Ala Trp Met Arg			
820	825	830	835
cag atc cca gac ccg gag gat gtg agg ctt ctg atc atc tac gat ccg			2781
Gln Ile Pro Asp Pro Glu Asp Val Arg Leu Leu Ile Ile Tyr Asp Pro			
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Asp Pro Gly Pro Ser Trp Ser Pro Ser Arg Gly Gly Leu Ser Val Val			
870	875	880	
ctg gca gcc ctg agt aac ccg ttg tgc ctg ccg agc act cat gcc tgg			2925
Leu Ala Ala Leu Ser Asn Arg Leu Cys Leu Pro Ser Thr His Ala Trp			
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gcc ggg aac tgg acc ggc ccg ccg gac gtg tcc gct ttg aac gcc ccg			2973
Ala Gly Asn Trp Thr Gly Pro Pro Asp Val Ser Ala Leu Asn Ala Arg			
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ggc gtt tta tta ctg tcg acc cga gac ctg gcc ttt gcc ggg gcc gtc			3021
Gly Val Leu Leu Leu Ser Thr Arg Asp Leu Ala Phe Ala Gly Ala Val			
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Glu Tyr Leu Gly Ser Arg Leu Ala Ser Ala Arg Arg Arg Leu Leu Val			
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950	955	960	
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Ala Val Phe Ala Ser Ser Arg Thr Phe Gly Pro Ala Ser Phe Ala			
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Arg Ile Glu Thr Ala Phe Ala Asn Leu Tyr Pro Gly Glu Gln Pro			
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Ser	Ala	Asp	Glu	Ala	Arg	Asn	Ala	Leu	Pro	Pro	Ile	Pro	Arg	Val		
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Met	Trp	Pro	Pro	Gly	Phe	Gly	Ala	Ala	Glu	Thr	Val	Leu	Glu	Gly		
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cgg	ccg	gca	gaa	acc	cag	gct	ggg	cga	cag	cgg	cg	acc	gca	gac		3888
Arg	Pro	Ala	Glu	Thr	Gln	Ala	Gly	Arg	Gln	Arg	Arg	Thr	Ala	Asp		
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gaa	gac	gct	tgg	gac	agc	gag	gag	ggg	ggc	ggg	gac	gac	ggg	gac		3978
Glu	Asp	Ala	Trp	Asp	Ser	Glu	Glu	Gly	Gly	Gly	Asp	Asp	Gly	Asp		
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